1 / 4

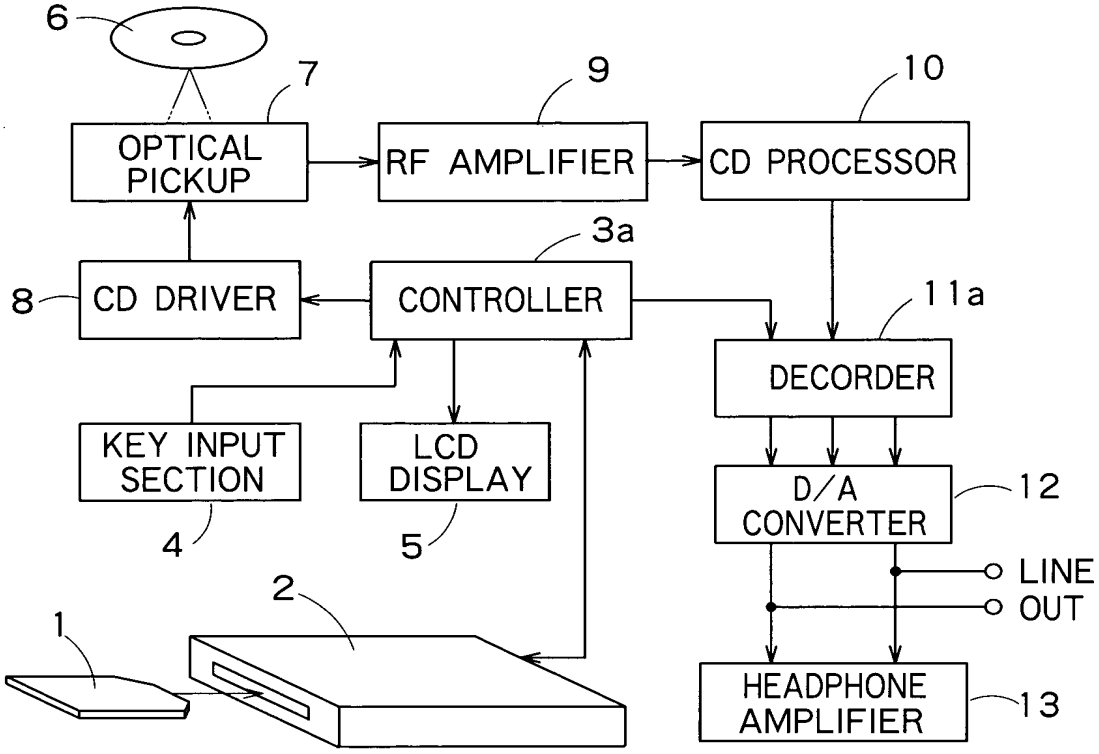
6
7
9
10
OPTICAL PICKUP
RF AMPLIFIER
CD PROCESSOR
3a
8
CD DRIVER
CONTROLLER
11a
DECORDER
KEY INPUT SECTION
LCD DISPLAY
D/A CONVERTER
12
4
5
LINE OUT
2
1
HEADPHONE AMPLIFIER
13

FIG. 1

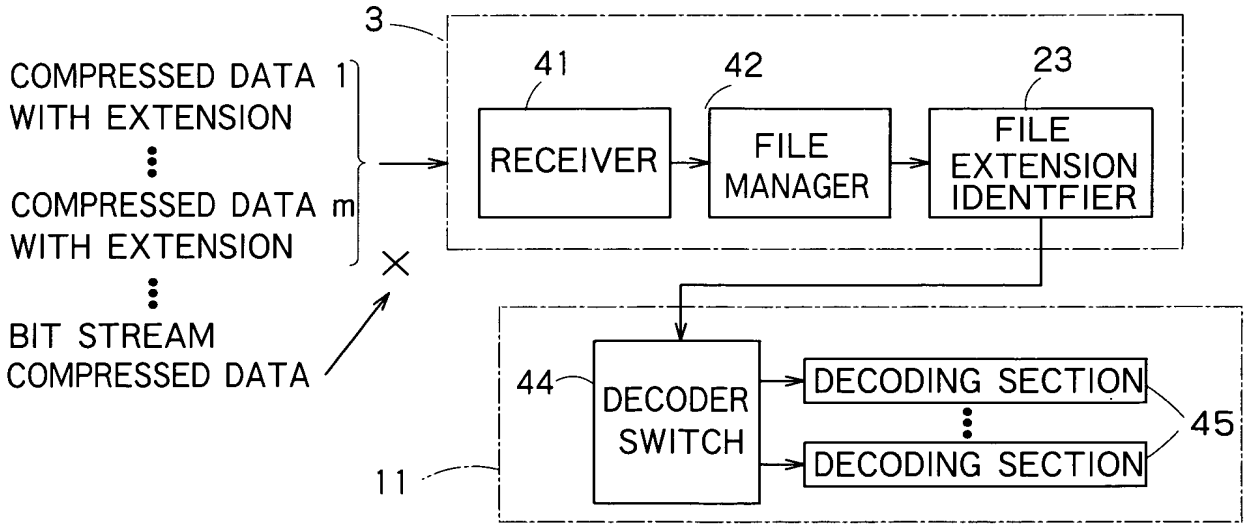
3
COMPRESSED DATA 1 WITH EXTENSION
COMPRESSED DATA m WITH EXTENSION
BIT STREAM COMPRESSED DATA
41
42
23
RECEIVER
FILE MANAGER
FILE EXTENSION IDENTFIER
44
DECODER SWITCH
DECODING SECTION
DECODING SECTION
45
11

FIG. 2

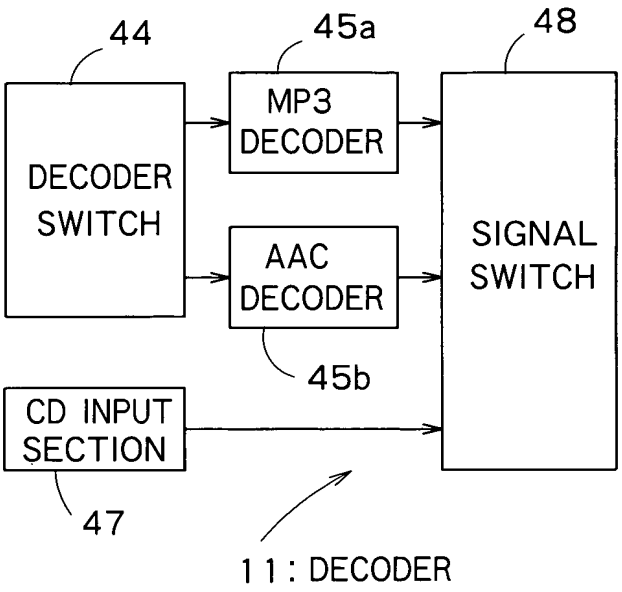
44
45a
48
DECODER SWITCH
MP3 DECODER
AAC DECODER
SIGNAL SWITCH
45b
CD INPUT SECTION
47
11 : DECODER

FIG. 3

3/4

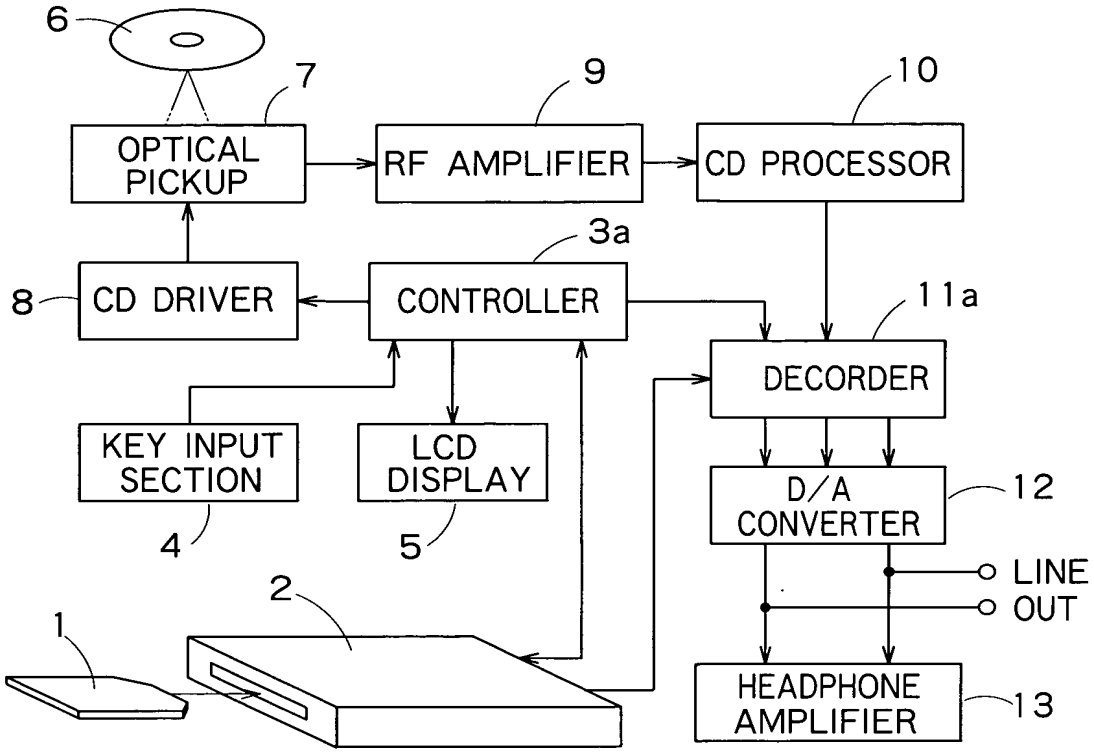
6
7
9
10
OPTICAL PICKUP
RF AMPLIFIER
CD PROCESSOR
3a
8
CD DRIVER
CONTROLLER
11a
DECORDER
KEY INPUT SECTION
LCD DISPLAY
D/A CONVERTER
12
4
5
LINE OUT
2
1
HEADPHONE AMPLIFIER
13

FIG. 4

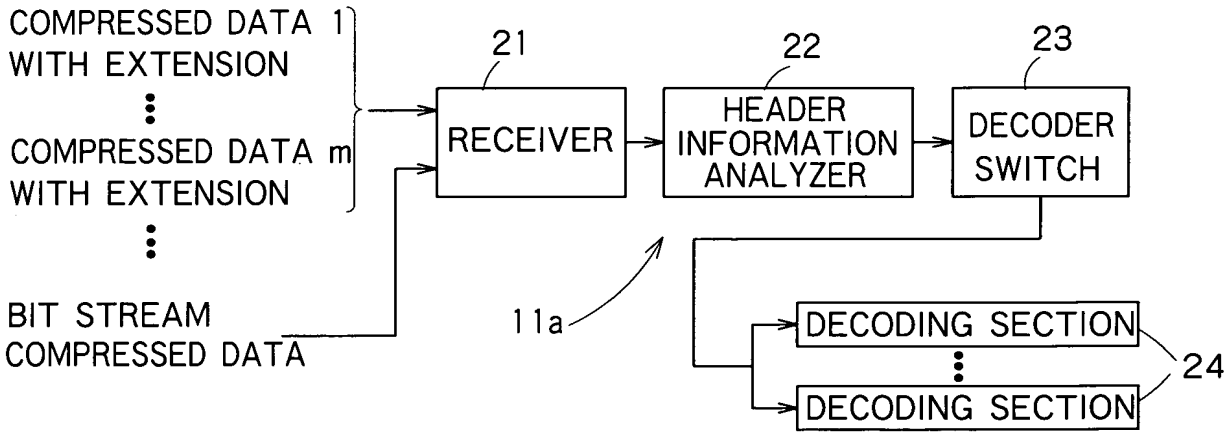
COMPRESSED DATA 1 WITH EXTENSION
COMPRESSED DATA m WITH EXTENSION
BIT STREAM COMPRESSED DATA
21
22
23
RECEIVER
HEADER INFORMATION ANALYZER
DECODER SWITCH
11a
DECODING SECTION
DECODING SECTION
24

FIG. 5

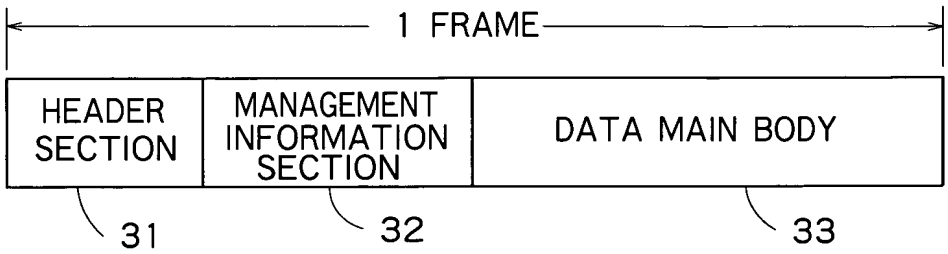

FIG. 6

CONTENTS OF HEADER

USE	THE NUMBER OF BITS	DEFINITION
ID	1	1:MPEG 1/Audio, 0:Reserved
LAYER	2	11:LAYER I, 10:LAYER II, 01:LAYER III, 00:Reserved
PROTECTION BIT	1	1:ERROR DETECTION INFORMATION NOT ADDED 0:THE SAME INFORMATION ADDED
BIT RATE	4	INDEX FOR DEFINING BIT RATE
SAMPLING FREQUENCY	2	11:Reserved, 10:32kHz, 00:44.1kHz
PADDING BIT	1	1:FRAME INCLUDING EXCESS SLOT 0:FRAME INCLUDING NO SLOT
USE BIT	1	UNUSED IN ISO/IEC
MODE	2	00:STEREO, 01:JOINT STEREO 10:DUAL STEREO, 10:SINGLE STEREO
MODE EXTENSION	2	SUB BAND FOR JOINT STEREO IN LAYER I / II, COMBINATION OF USED INTENSITY STEREO AND MS STEREO FOR LAYER
COPYRIGHT	1	1:COPYRIGHT PROTECTED, 0:NO COPYRIGHT
ORIGINAL/COPY DISTINCTION	1	1:ORIGINAL, 0:COPY
EMPHASIS	2	TYPE OF EMPHASIS TO BE USED

FIG. 7